

## CURRICULUM VITAE

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Professor

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### Education

1965 - 1969	B.A.	University of Virginia, Charlottesville, VA. Psychology (with honors)
1969 - 1973	M.D.	University of Virginia Medical School, Charlottesville, VA 22908

### Post Graduate Education and Training

1973 - 1974	Internship	Medicine - St. Elizabeth's Hospital (Tufts Affiliate), 736 Cambridge St. Boston, MA 02135
1974 - 1975	Residency	Medicine - St. Elizabeth's Hospital, 736 Cambridge St., Boston, MA 02135
1975 - 1976	Residency	The Carney Hospital (Boston University Affiliate), 2100 Dorchester Ave., Boston, MA 02124
1980 - 1982	Fellowship	Rheumatology - Walter Reed Army Medical Center, Washington, DC 20737
1984 - 1988	Fellowship	Medical Staff Fellow, Immunology Branch, DCBD, National Cancer Institute, NIH, Bethesda, MD 20892 - Gene M. Shearer, Ph.D., Laboratory Chief,

### Certifications:

1982	Maryland Medical License
1974	National Board of Medical Examiners
1976	American Board of Internal Medicine (Medicine)
1982	American Board of Internal Medicine (Rheumatology)
1982	Advanced Cardiac Life Support (American Heart Assoc.)

### Medical Licensures:

1984 - present	Maryland - D 27834
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### Military Service

1976 - 1979	Internist, 5th General Hospital, Stuttgart, Germany
1979 - 1980	Assistant Chief Internal Medicine, Berlin Army Hospital, West Berlin, Germany
1980 - 1982	Fellowship (Rheumatology), Walter Reed Army Medical Center, Washington, D.C.
1982 - 1984	Chief, Rheumatology Service, Brooke Army Medical Center, San Antonio, TX 78234
1984	Honorable Discharge, (Lieutenant Colonel)

### Employment History

1984-1988	Clinical Assistant Professor of Medicine, Uniformed Services University of the Health Sci., Bethesda, MD
1988-1993	Assistant Professor of Medicine, University of Maryland School of Medicine
Joint Appointments:	Microbiology and Immunology Department Department of Surgery Molecular and Cell Biology Graduate Program
1993-1998	Associate Professor of Medicine with tenure, University of Maryland School of Medicine
1998 - 2004	Professor of Medicine with tenure, University of Maryland School of Medicine
2004-present	Professor with tenure, Uniformed Services University of Health Sciences.

### **Professional Memberships**

1990-2004	<u>Arthritis Foundation, Maryland Chapter</u> Medical & Scientific Committee, member 1990-present, chairman 1992-93
1983-present	<u>American Rheumatism Association / American College of Rheumatology</u> Abstract Selection Committee - Southeast Regional Meeting, 1991. Abstract Selection Committee: National Meetings, 1992-93, 97, 2005. “Systemic Lupus Erythematosus; Leukocyte Adhesion Markers, RA-Animal Models.” ACR annual meeting session chair: “MURINE Models of SLE”, 1997; “SLE-Human etiology and pathogenesis-Genes and Gene Expression, 2003. Abstract Subcommittee Co-Chair “HLA, Lymphocyte Activation and Regulation”, 1999-2000.
1985-present	<u>American Association of Immunologists</u> Block Symposium co-chair -Annual Meeting, 1999 “Immune Response in GVHD and Bone Marrow Transplant”
1996-present	<u>Clinical Immunology Society</u> Communications Committee member, 2000 Maryland State Commission on Arthritis, UMAB representative
1992-1995	American Federation for Clinical Research
1986-1995	The Transplantation Society
1989-1995	D.C. Rheumatism Society
1980-1985	American College of Physicians
1976-1986	

### **Honors and Awards**

1969	Phi Beta Kappa
1989	VA Career Development Award (Research Associate)
1996	Patent # 5,514,556- Method for detecting immune dysfunction in asymptomatic AIDS patients or predicting organ transplant rejection.
2001	Phillip Hench Award in Rheumatology, Assn of Military Surgeons of the United States.
2002	26th ann Einbender Lecturer in Lupus, Univ. Missouri Med.Sch, Columbia, MO.

### **Administrative Service- USUHS**

#### **Teaching**

2004- present	Lecturer in 2 <sup>nd</sup> year Pathology (Liver Disease lectures; Parathyroid and Calcium lectures)
2004-present	Small groups instructor, 2 <sup>nd</sup> year Pathology

#### **Administrative**

2005-present	IACUC- alternate member
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### **Editorial Responsibilities:**

2005	Section Editor, <u>The Journal of Immunology</u>
2005-present	<u>Current Immunology Reviews</u>
2002-present	Editorial Board, <u>Clinical and Diagnostic Laboratory Immunology</u>
1992-2004	Editorial Board, <u>Clinical Immunology</u>
1994-2000	Associate Editor, <u>Journal of Immunology</u> Ad Hoc Reviewer - Journal of Clinical Investigation, Arthritis & Rheumatism, Laboratory Investigation, Blood, Journal of Clinical Immunology, Autoimmunity, Transplantation

### **National Society Committees:**

2000-2004	Communications Committee, Clinical Immunology Society.
2002-2004	Member (Ex-Officio), NIAMS Advisory Council
1991-1993	Maryland State Commission of Arthritis and Related Disorders

### **Study Sections/Peer Review**

2002- 2004	Member, Cellular Immunology; Arthritis Foundation,
1998-present	NIH ad hoc reviewer: Special Emphasis Panels (NIAID, NIAMS), SCOR in SLE (Chair), Autoimmunity Centers of Excellence, NSRA, Immunobiology (IMB), Immunological Sciences (IMS),
1999- 2003	Member, External Advisory Board, Rheumatoid Arthritis Program Project, Rush Memorial Hospital, Chicago, IL
1991-1992	Member, Clinical and Applied Immunology; Arthritis Foundation,

1995-1998	Member, Clinical Immunology Section, VA Merit Review Board,
1999	Member, Intramural Research Site Visit Team, Laboratory of Plasma Derivatives, Division of Hematology, Center for Biologics Evaluation and Research, FDA.

**Administrative Service- University of Maryland School of Med./ Baltimore VA Medical Center**

1989-1992	Attending Physician, Rheumatology Clinic, Baltimore VA Medical Center
1989-2004	Attending Physician, Medicine service, Baltimore VA Medical Center
1989-2004	Attending Physician, Rheumatology consult service
1990-2000	Medical School Admissions Committee
1990-2002	Medicine Dept. Internship/Residency candidate interviewer
1990-1995	Medical School Council (alternate member)
1992-2004	Chief, Rheumatology Clinic, Baltimore VA Medical Center
1994-1995	Medical Transplantation Program Committee
1995-2000	Space Utilization Committee, Baltimore VA Research Service
1995-2004	Co-director, Lupus Program, University of Maryland Med. Ctr.
1997-2002	Chief Medical Records Committee, Baltimore VAMC

- Publications**
1. **Via CS**, Hasbargen JA, Moore J Jr, Redfield R, Antonovych TT: Rheumatoid arthritis and membranous glomerulonephritis: a role for immune complex dissociative techniques. J Rheum 11:343-347, 1984.
  2. **Via CS**, Allen RC, Welton RW: Direct stimulation of neutrophil oxygenation activity by serum from patients with systemic lupus erythematosus: A Relationship to Disease Activity. J Rheum 11:745-753, 1984.
  3. Anderson PA, West SG, O'Dell JR, **Via CS**, Claypool RG, Kotzin BL: Weekly pulse methotrexate in rheumatoid arthritis: clinical and immunologic effects in a randomized double-blind study. Ann Int Med 103:489-496, 1985.
  4. Shearer GM, Bernstein DB, Tung KTK, **Via CS**, Redfield R, Salahuddin SZ, Gallo RC. A model for the selective loss of MHC self-restricted T-cell immune responses during the development of AIDS. J. Immunol. 137:2514-2521, 1986.
  5. **Via CS**, Sharrow SO, Shearer GM. Role of cytotoxic T lymphocytes in the prevention of lupus-like disease occurring in a murine model of graft-vs-host disease. J. Immunol. 139:1840-1849, 1987.
  6. Shanley JD, **Via CS**, Sharrow SO, Shearer GM. Interstitial pneumonitis during murine cytomegalovirus infection and graft-vs-host reaction: characterization of bronchoalveolar lavage cells. Transplantation 44:658-662, 1987.
  7. **Via CS**, Shanley JD, Weatherly BD, Laing PH, Shearer GM. Altered threshold for the induction of graft-vs-host disease following murine cytomegalovirus infection: host and donor contributions. Transplantation 46:298-302, 1988.
  8. Fukuzawa M, **Via CS**, Shearer GM. Defective thymic education of L3T4<sup>+</sup> T helper cell function in graft-vs-host mice. J. Immunol. 141:430-439, 1988.
  9. **Via CS**, Shearer CM. Graft-vs-host disease as a model for the development of autoimmunity: relevance of cytotoxic T lymphocytes. Ann. NY Acad. Sci. 532:44-50, 1988.
  10. **Via CS**, Shearer GM. T-cell interactions in autoimmunity: insights from a murine model of graft-vs-host disease. Immunol. Today 9:207-213, 1988.
  11. Shanley JD, Pomeroy C, **Via CS**, Shearer GM. Interstitial pneumonitis during murine cytomegalovirus infection and graft-vs-host reaction: effect of ganciclovir therapy. J. Inf. Dis. 158:1391-1394, 1988.
  12. **Via CS**, Shearer GM. Functional heterogeneity of L3T4<sup>+</sup> T cells in MRL-lpr/lpr mice: L3T4<sup>+</sup> T cells suppress MHC-self restricted L3T4<sup>+</sup> T helper cell function in association with autoimmunity. J. Exp. Med. 168:2165-2181, 1988.
  13. **Via CS**, Shearer GM. T cell immunity to hapten-modified self in normal and autoimmune conditions. in: Symposia Medica Hoechst: Toxicological and Immunological Aspects of Drug Metabolism and Environmental Chemicals. Estabrook RW, Lindenlaub E, Oesch F, and de Weck AL, editors. Vol. 22:185-193, 1988.
  14. Morse HC III, Yetter RA, **Via CS**, Hardy RR, Cerny A, Hawakawa K, Hugin AW, Miller MW, Holmes KL, Shearer GM. Functional and phenotypic alterations in T cell subsets during the course of MAIDS, a murine retroviral-induced immunodeficiency syndrome. J. Immunol. 143:844-850, 1989.
  15. **Via CS**, Shearer GM. Autoimmunity and the acquired immunodeficiency syndrome. Curr. Opin. Immunol. 1:753-756, 1989
  16. Clerici M, Stocks NI, Zajac RA, Boswell RN, Lucey DR, **Via CS**, Shearer GM. Detection of three distinct patterns of T helper cell dysfunction in asymptomatic, HIV-seropositive patients: independence of CD4<sup>+</sup> cell numbers and clinical staging. J. Clin. Invest. 84:1892-1899, 1989.

17. **Via CS**, Tsokos GT, Clerici M, Stocks NI, Shearer GM. Human in vitro allogeneic responses: demonstration of three pathways of T helper cell activation. J. Immunol 144:2524-2528, 1990.
18. Clerici M, Stocks NI, Zajac RA, Boswell RN, **Via CS**, Shearer GM. Circumvention of defective CD4+ T helper cell function in HIV infected individuals by with HLA alloantigens. J. Immunol 144:3266-3277, 1990.
19. **Via CS**, Morse HC, Shearer GM. Altered immunoregulatory and autoimmune aspects of HIV infection: relevant murine models. Immunol. Today 11:250-255, 1990.
20. **Via CS**, Shanley JD, Shearer GM. Synergistic effect of murine cytomegalovirus on the induction of acute graft-vs-host disease involving major histocompatibility complex class I differences only: analysis of in vitro T cell function. J. Immunol. 145:3283-3289, 1990.
21. Finkleman FF, Urban JF, **Via CS**, Holmes JM, Trotta P, Paul WE, Katona IM. Cytokine regulation of the murine in vivo IgE response. in Cytokines: Basic Principles and Clinical Application. S. Romagnani and A. K. Abbas, eds. Serano Symposia, Raven Press, 189-201, 1990.
22. Muluk SC, Clerici M, **Via CS**, Weir, MR, Kimmel PL, Shearer GM. A new approach for analysis of the mixed lymphocyte reaction that is predictive for human renal allograft rejection. Transpl. Proc. 23:1274-1276, 1991.
23. **Via CS**. Kinetics of T cell activation in suppressive and autoimmune forms of murine graft-vs-host disease. J. Immunol. 146:2603-2609, 1991.
24. Clerici M, Tacket CO, **Via CS**, Lucey DR, Muluk SC, Zajac RA, Boswell RN, Berzofsky JA, Shearer GM. Immunization with subunit HIV vaccine generates stronger T helper cell immunity than natural infection. Eur. J. Immunol. 21:1345-1349, 1991.
25. Muluk SC, Clerici M, **Via CS**, Weir, MR, Kimmel PL, Shearer GM. Correlation of in vitro CD4+ T helper cell function with clinical graft status in immunosuppressed kidney transplant recipients. Transplantation 52:284-291, 1991.
26. **Via CS**. Human immunodeficiency virus infection and autoimmune disease. in: Concepts in Immunopathology: Molecular and Clinical Aspects of Autoimmune Disease. Vol.8. 238-249, 1991.
27. Clerici M, **Via CS**, Roilides E, Pizzo P, Shearer GM. Functional dichotomy of CD4+ T helper lymphocytes in asymptomatic HIV infection. Eur. J. Immunol. 21:665-670, 1991.
28. Clerici M, Roilides E, **Via CS**, Pizzo P, Shearer GM. A factor from CD8 cells of human immunodeficiency virus (HIV) - infected patients suppress HLA self-restricted T helper cell responses. Proc. Nat. Acad. Sci. (USA). 84:24-8428, 1992.
29. **Via CS**, Handwerger, BS. T and B cell function in systemic lupus erythematosus. Curr. Opin. Rheum. 4:630-634, 1992
30. Lahvis GP, Wells RS, Casper D, **Via CS**. In vitro lymphocyte function in bottlenose dolphins (*Tursiops truncatus*) : Mitogen-induced proliferation. Mar. Env. Res. 35:115-119, 1993.
31. **Via CS**, Finkelman FD. Critical role of interleukin-2 in the development of acute graft-vs-host disease. Int. Immunol. 5:565-572, 1993.
32. **Via CS**, Tsokos GT, Bermis B, Clerici M, Shearer GM. T cell-antigen presenting cell interactions in human systemic lupus erythematosus: evidence for heterogeneous expression of multiple defects. J. Immunol. 151:3914-3922, 1993.
33. **Via CS** & Handwerger, BS. B-cell and T-cell function in systemic lupus erythematosus. Current Opinion in Immunology. 5:570-574, 1993.
34. Schulick RD, Muluk SC, Clerici M, Bermas BL, **Via CS**, Weir MR, Shearer GM. Value of in vitro CD4+ T helper cell function test for predicting long term loss of human renal allografts. Transplantation 57:480-482, 1994.
35. Bermis BL, Petri M, Goldman D, Miller M, Stocks N, **Via CS**, Shearer GM. T cell dysfunction in SLE patients is related to disease activity and increased IL-10 levels. J. Clin Immunol. 143:169-177, 1994.
36. **Via CS**, Rus V, Gately M, Finkelman FD. Interleukin-12 stimulates the development of acute graft-vs-host disease in mice that would normally develop chronic, autoimmune graft-vs-host disease. J. Immunol 153:4040-4047, 1994.
37. Handwerger BS, Rus V, da Silva L, **Via CS**. The role of cytokines in the immunopathogenesis of lupus. Springer Semin. Immunol. 16:153-180, 1994.
38. Lahvis G, Wells, RS, Kuehl, DW, Stewart, JL, Rhinehart, HL, **Via CS**. Decreased lymphocyte responses in free-ranging bottlenose dolphins (*Tursiops truncatus*) are associated with increased concentrations of PCBs and DDT in peripheral blood. Environ. Health Persp. 1995; 103S4:67-72.
39. Rus V, Nguyen P, **Via CS**. Preliminary studies of in vitro and in vivo effects of misoprostol and enisoprost on murine Th-1 and Th-2 cytokine production. Am. J. Ther. 2:1-6, 1995.
40. Rus V, Svetic A, Nguyen P, Gause WC, **Via CS**. Kinetics of Th1 and Th2 cytokine production during the early course of acute and chronic murine graft-vs-host disease: regulatory role of donor CD8+ T cells. J. Immunol. 1995; 155:2396-2406.

41. Tsokos GT, Kovacs B, Sfakianos P, Theocharis S, Vogelgesang S, **Via CS**. Defective antigen presenting cell function in patients with systemic lupus erythematosus: role of the B7-1 (CD80) costimulatory molecule. Arthritis Rheum. 1996; 39:600-609.
42. **Via CS**, Sawari, A.R. Autoimmunity in HIV infection. in Immunology of HIV infection. S. Gupta ed, 1996; 277-284.
43. **Via CS**, Rus V, Nguyen P, Linsley P, Gause WC. Differential effect of CTLA4Ig on murine graft-vs-host disease development: CTLA4Ig prevents both acute and chronic GVHD development but reverses only chronic GVHD. J. Immunol 1996; 157:4258-4267.
44. **Via CS**, Nguyen P, Shustov A, Drappa J, Elkon K.A major role for the Fas pathway in acute graft-vs-host disease. J. Immunol 1996; 157:5387-5393
45. Sfrikakis PP, **Via CS**. Expression of CD28, CTLA4, CD80, and CD86 molecules in patients with autoimmune rheumatic diseases: implications for immunotherapy. Clin Immunol. Immunopathol. (editorial) 1997; 83: 195-198.
46. Gause WC, Mitro V, **Via CS**, Linsley P, Greenwald R. Do effector and memory T helper cells also need costimulatory signals? J. Immunol (Cutting Edge Commentary) 1997; 159:1055-1058.
47. Hadley GA, Bartlett ST, **Via CS**, Rostapshova EA, Moaine SL. The epithelial cell-specific  $\alpha^e\beta^7$ , defines a novel subset of alloreactive cytolytic T lymphocytes. J. Immunol 1997; 3748-3756.
48. Mozes E, Alling D, Miller MW, Payne SM, Zinger H, **Via CS**, Shearer GM. Genetic analysis of experimentally induced lupus. Clin Immunol. Immunopathol 1997; 85:28-34..
49. Liossis N, **Via CS**, Tsokos GT. The alter ego of heat shock proteins. Clin Immunol. Immunopathol (editorial) 1997; 85:28-34.
50. Shustov A, Nguyen P, Finkelman FD, Elkon K, **Via CS**. Differential expression of Fas and Fas ligand in acute and chronic murine graft-vs-host disease: upregulation of Fas and Fas ligand requires CD8+ T cell activation and IFN-gamma production. J. Immunol 1998; 161:2848-2855.
51. Shustov A, Rus V, Nguyen P, Chevrier M, **Via CS**. Murine graft-vs-host disease: relevance to human lupus immunopathogenesis and therapy. In Lupus: Cellular and Molecular Pathogenesis. Tsokos GT & Kammer GM (Eds). 1999; 140-151.
52. Handewerger B, Luzina I, da Silva L, Storrer K, **Via CS**. Cytokines in the immunopathogenesis of lupus. In Lupus: Cellular and Molecular Pathogenesis. Tsokos GT & Kammer GM (Eds). 1999; 321-340.
53. Lang T, **Via CS**. Animal Models of Rheumatic Diseases. In Current Molecular Medicine: Principles of Molecular Rheumatology. Tsokos GC (Ed) Humana Press Inc. Totawa, NJ. 293-308.
54. Shustov A, **Via CS**. Transplantation and Autoimmunity. In The Molecular Pathology of Autoimmune Diseases. 2d edition. Theophilopoulos A. (Ed) (in press).
55. Shustov A, Luzina I, Nguyen P, Papadimitriou JC, Handewerger BS, Elkon K, **Via CS**. Role of perforin in controlling B cell hyperactivity and humoral autoimmunity. J. Clin. Invest. 2000; 106: R39-R47.
56. Rus V, **Via CS**. Telomeres, telomerase and lupus: the long and short of it. Clin Immunol. Immunopathol 2001; 99:195-197.
57. **Via CS**, Shustov A, Rus V, Lang T, Nguyen P, Finkelman FD. In vivo neutralization of TNF-alpha promotes humoral autoimmunity by preventing the induction of CTL. J. Immunol 2001; 167:6821-6826.
58. Rus V, **Via CS**. Connective Tissue Disorders. In Conn's Current Therapy 2002. Rakel RE, Bope ET (Eds.) WB Saunders: 788-792.
59. Rus V, Atamas SP, Shustova V, Luzina IG, Selaru F, Magder LS, **Via CS**. Expression of cytokine- and chemokine-related genes in peripheral blood mononuclear cells from lupus patients by cDNA array. Clin. Immunol. 2002; 102:283-90.
60. Lang TJ, Nguyen P, Peach R, Gause W, **Via CS**. In vivo CD86 blockade inhibits CD4 + T cell activation whereas CD80 blockade potentiates CD8+ T cell activation and CTL effector function. J. Immunol. 2002 168: 3786-3792
61. Niculescu F, Nguyen P, Niculescu T, Rus H, Rus V, **Via CS**. Pathogenic T cells in murine lupus exhibit spontaneous signaling activity through PI-3 kinase and MAP kinase pathways. Arthritis Rheum 2003 48:1071-9.
62. **Via CS**, Nguyen P, Niculescu F, Papadimitriou J, Hoover D, Silbergeld EK. Low dose exposure to inorganic mercury accelerates disease and mortality in acquired murine lupus. Environ. Health Perspect. 2003;111:1273-7.
63. Lang TJ, Nguyen P, Papadimitriou J, **Via CS**. Increased severity of murine lupus in female mice is due to enhanced expansion of pathogenic T cells. J. Immunol. 2003; 171:5795-801
64. Puliaev R, Nguyen P, Finkelman F, **Via CS**. Differential requirements for interferon- $\gamma$  in CTL maturation in acute GVHD. J. Immunol. 2004; 173:910-919.
65. Rus V, Chen H, Zernetkina V, Magder L, Mathai S, Hochberg M, **Via CS**. Gene Expression Profiling in Peripheral Blood Mononuclear Cells from Lupus Patients with Active and Inactive Disease. Clin. Immunol. 2004; 112: 231-234.

66. Akpek G, **Via CS**, Vogelstein GB. Clinical spectrum and therapeutic approaches to chronic graft-vs-host disease. In Graft-vs.-Host Disease. 3rd Edition, Ferrara JL, Cooke KR, Deeg HJ (Eds). Marcel Dekkar, Inc New York, 2005, 555-608.
67. Chevrier M, Ryan AE, Lee D, Zhongze M, Wu-Yan Z, **Via CS**. *Boswellia carterii* extract inhibits TH1 cytokine and promotes Th2 cytokine production in vitro. Clin. Diag. Lab. Immunol. 2005. 12:575-80.
68. Rus V, Zernetkina V, Puliaev R, Mathai S, **Via CS**. Increased Expression and Production of Tumor Necrosis Factor-Related Apoptosis- Inducing Ligand (TRAIL) by T Cells from Lupus Patients Is a Feature of Active Disease. Clin.Immunol. 2005: 117:48-56.
69. Niculesu, F, Niculescu T, Nguyen P, Puliaev, J. Papadimitriou J, Gaspari A, Rus H, **Via CS**.Apoptosis and complement membrane attack complex deposition are major features of tissue damage in late parent-into-F1 acute graft vs. Host disease. Exp. Mol. Pathol. 2005; 79:136-145
70. Puliaev RA, Puliaeva IA, Ryan AE, Via CS. The parent-into-F1 model of graft-vs.-host disease as a model of in vivo T cell function and immunomodulation. Current Medical Chemistry-Immunology, Endocrine and Metabolic Agents. 2005 5:575-583.
71. Rus V, Via CS. Cytokines in Lupus. In: Systemic Lupus Erythematosus, a Companion to Rheumatology. Tsokos GT ed (in press).
72. Grader-Beck T, Casciola-Rosen L, Lang T, Rosen A, Via CS. Apoptotic splenocytes drive the autoimmune response to poly (ADP-ribose) polymerase 1 in a murine model of lupus. (submitted)